

Project title: **Innovative lightweight cold-formed steel-concrete composite floor system**

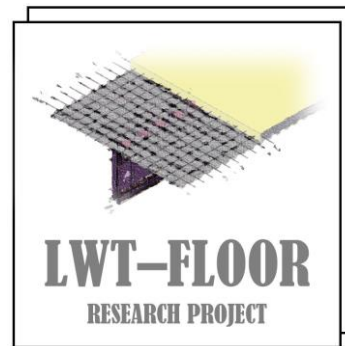
Acronym: **LWT-FLOOR** Project ID: **UIP-2020-02-2964**

3rd LWT-FLOOR Project Workshop

Provedba i analiza laboratorijskih ispitivanja čeličnih i spregnutih nosača

*-Implementation and analysis of the steel and
composite girders laboratory tests-*

Andrea Rajić, Ivan Lukačević, Ivan Ćurković, Marko Bartolac,
Vlaho Žuvelek



University of Zagreb/Faculty of Civil Engineering

<http://www.grad.unizg.hr/lwtfloor>

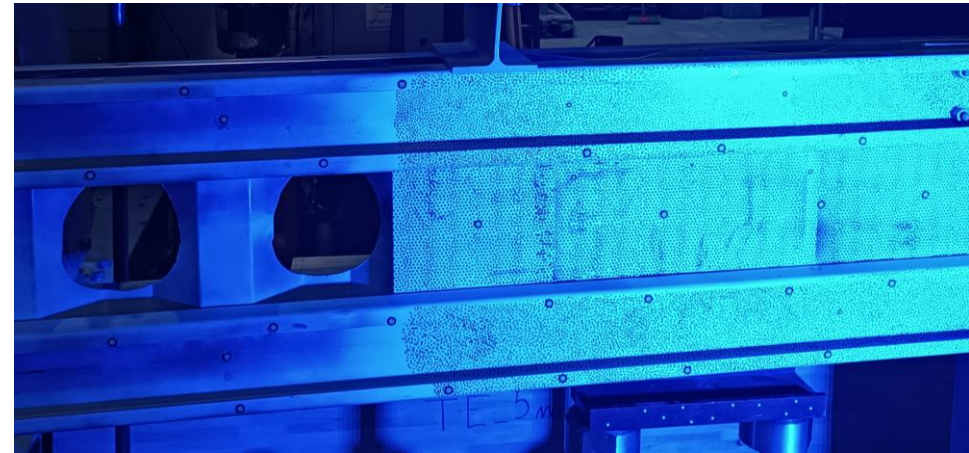
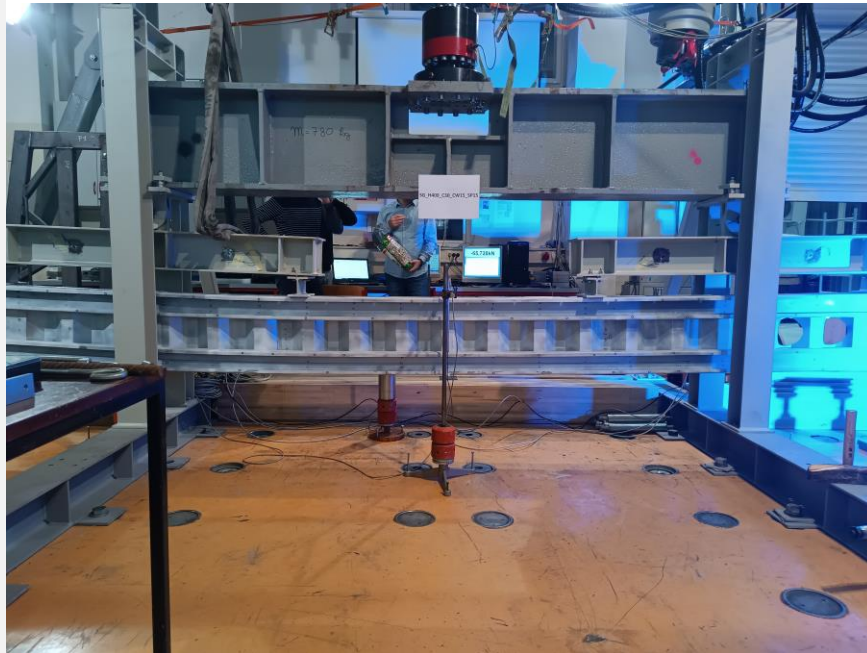


STEEL GIRDER					DATE:
	height [mm]	channel thickness [mm]	CW thickness [mm]	Shear plate thickness [mm]	
SG1 WEB OPENINGS	400	3.0	1.5	1.5	30.1.2023.
SG2	500	2.0	1.0	1.0	1.2.2023.
SG3	400	2.5	1.0	1.0	3.2.2023.

COMPOSITE GIRDER					DATE:
	height [mm]	channel thickness [mm]	CW thickness [mm]	Shear plate thickness [mm]	
CG1	400	2.5	1.0	1.0	7.2.2023.
CG2	500	2.0	1.0	1.0	10.2.2023.
CG3 WEB OPENINGS	400	3.0	1.5	1.5	14.2.2023.

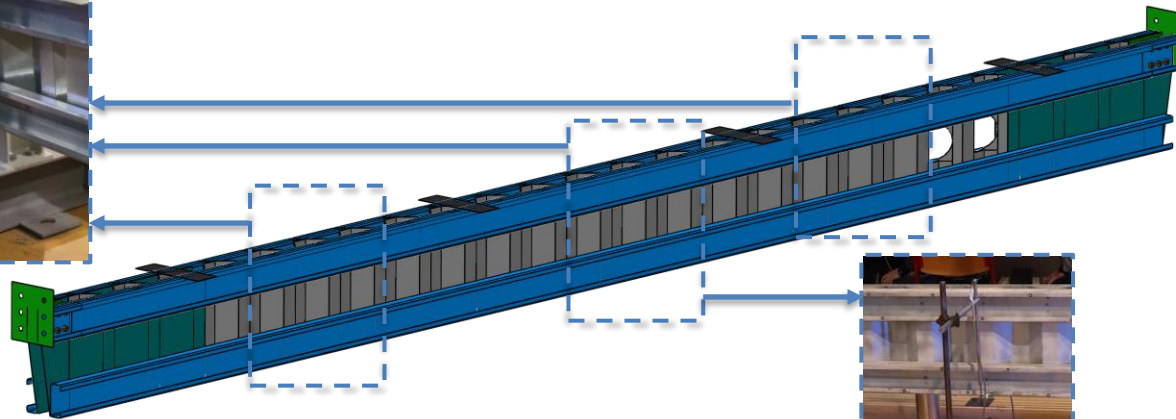
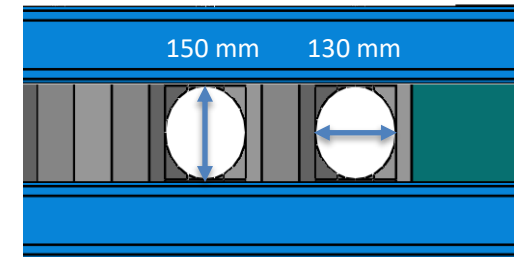
STEEL GIRDER

STEEL GIRDER				
	height [mm]	channel thickness [mm]	CW thickness [mm]	Shear plate thickness [mm]
SG1 WEB OPENINGS	400	3.0	1.5	1.5
SG2	500	2.0	1.0	1.0
SG3	400	2.5	1.0	1.0



STEEL GIRDER

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	height [mm]	channel thickness [mm]	CW thickness [mm]	Shear plate thickness [mm]
SG1 WEB OPENINGS	400	3.0	1.5	1.5
SG2	500	2.0	1.0	1.0
SG3	400	2.5	1.0	1.0

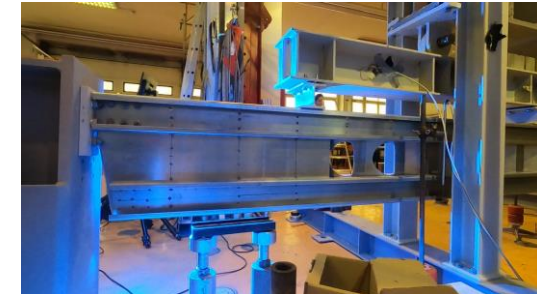
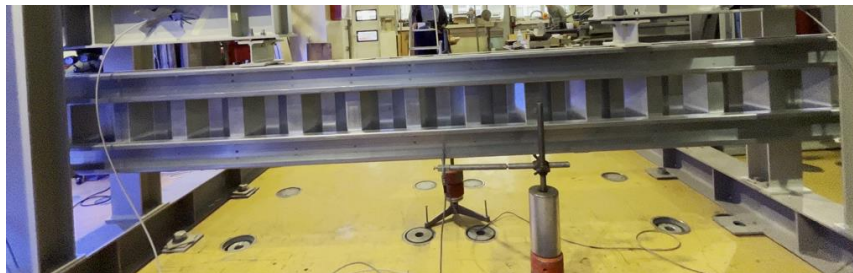


LVDT
POSITIONS

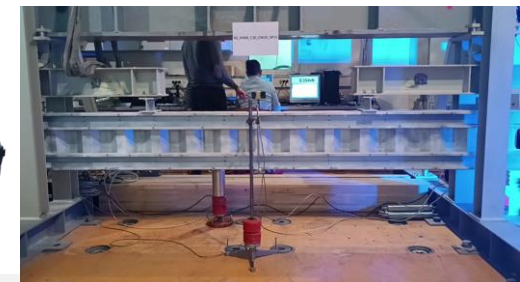


STEEL GIRDER

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	height [mm]	channel thickness [mm]	CW thickness [mm]	Shear plate thickness [mm]
SG1 WEB OPENINGS	400	3.0	1.5	1.5
SG2	500	2.0	1.0	1.0
SG3	400	2.5	1.0	1.0

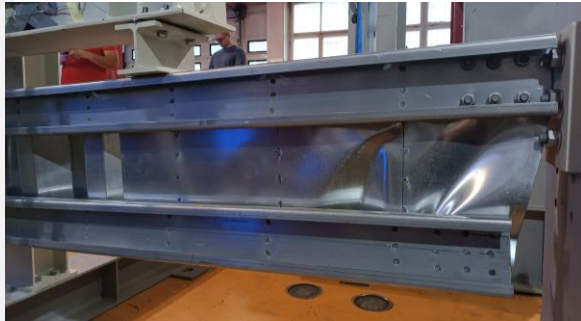


CAMERA
POSITION

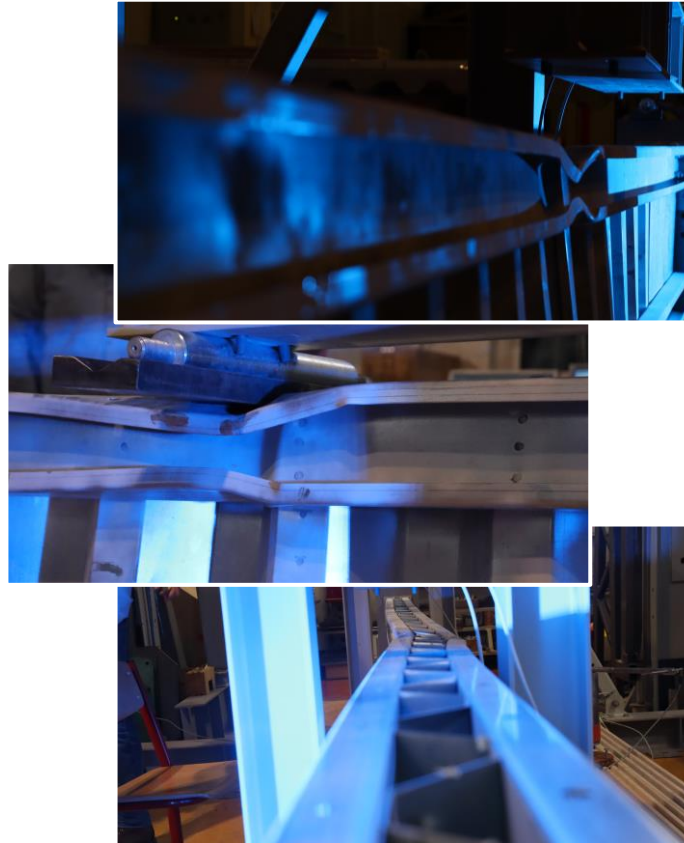


STEEL GIRDER

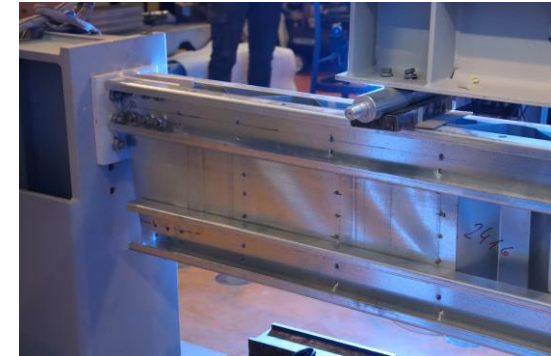
SG1



SG2



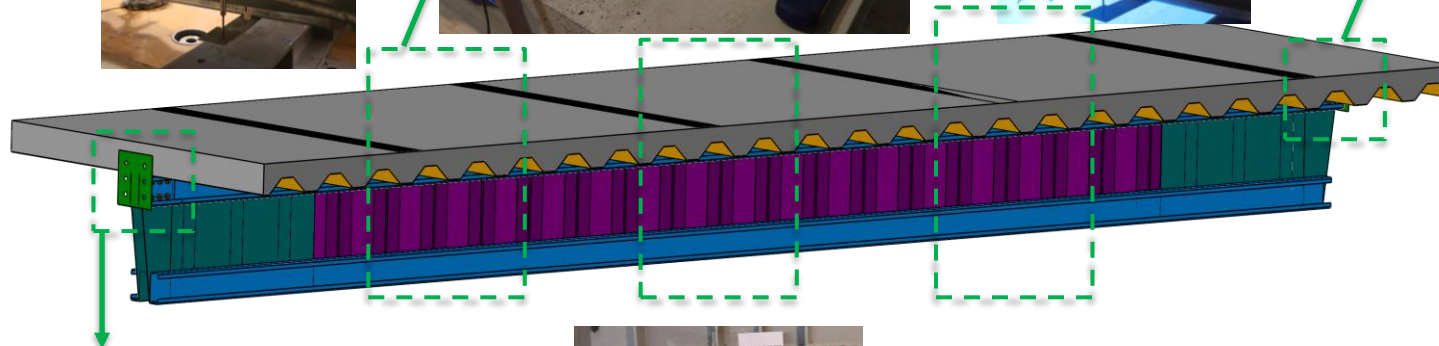
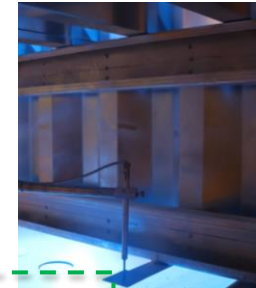
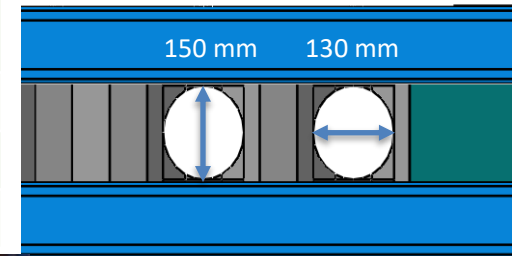
SG3



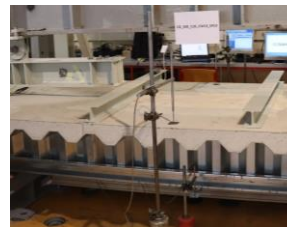
COMPOSITE GIRDER

COMPOSITE GIRDER

	height [mm]	channel thickness [mm]	CW thickness [mm]	Shear plate thickness [mm]
CG1	400	2.5	1.0	1.0
CG2	500	2.0	1.0	1.0
CG3 WEB OPENINGS	400	3.0	1.5	1.5



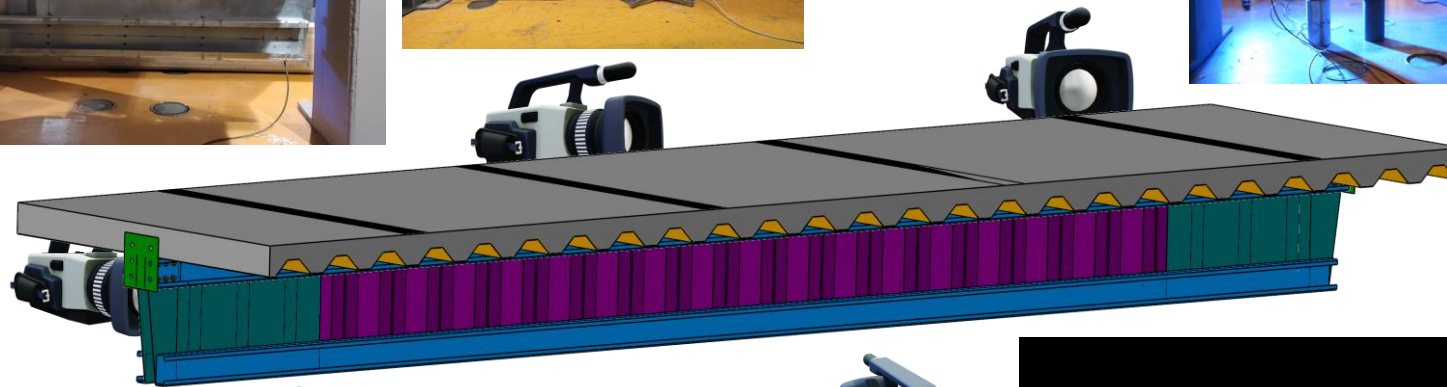
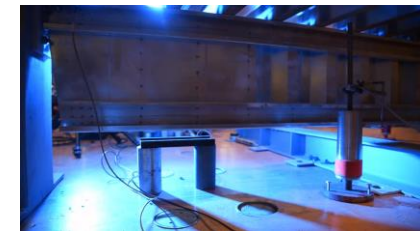
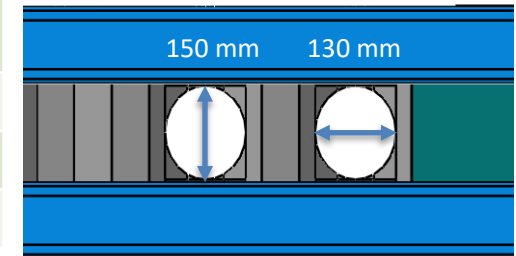
LVDT
POSITIONS



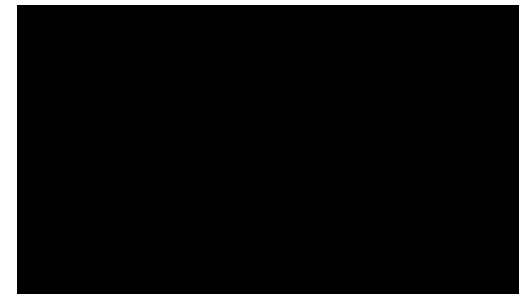
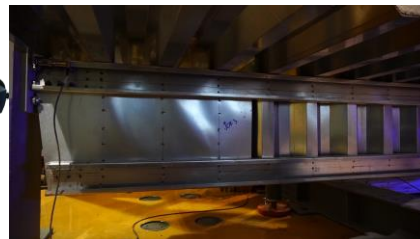
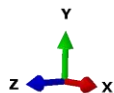
COMPOSITE GIRDER

COMPOSITE GIRDER

	height [mm]	channel thickness [mm]	CW thickness [mm]	Shear plate thickness [mm]
CG1	400	2.5	1.0	1.0
CG2	500	2.0	1.0	1.0
CG3 WEB OPENINGS	400	3.0	1.5	1.5

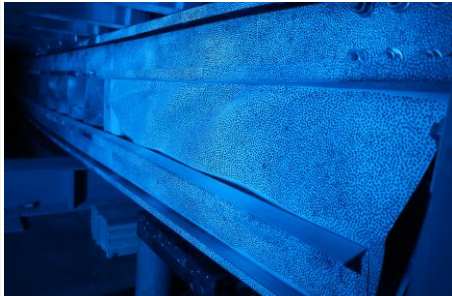


CAMERA
POSITION



STEEL GIRDER

CG1



CG2

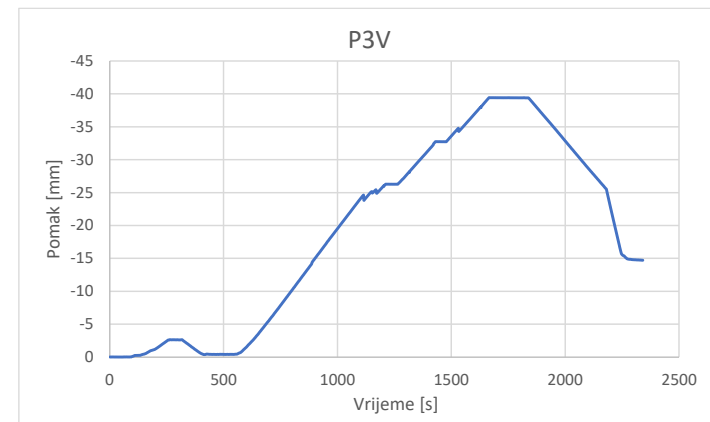
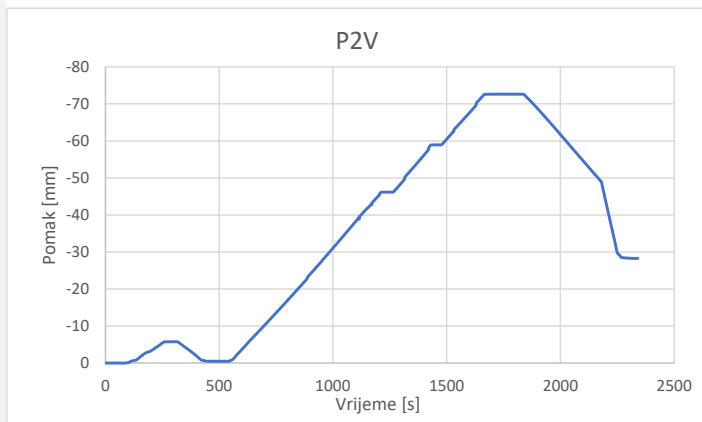
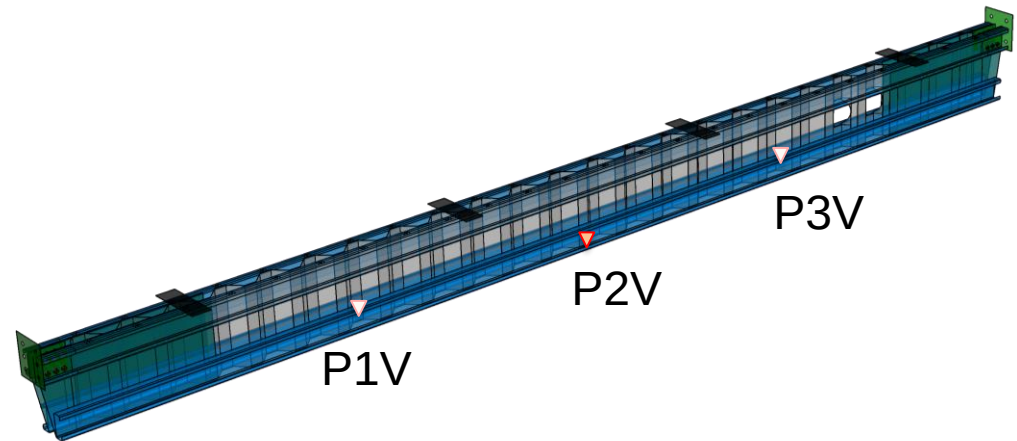
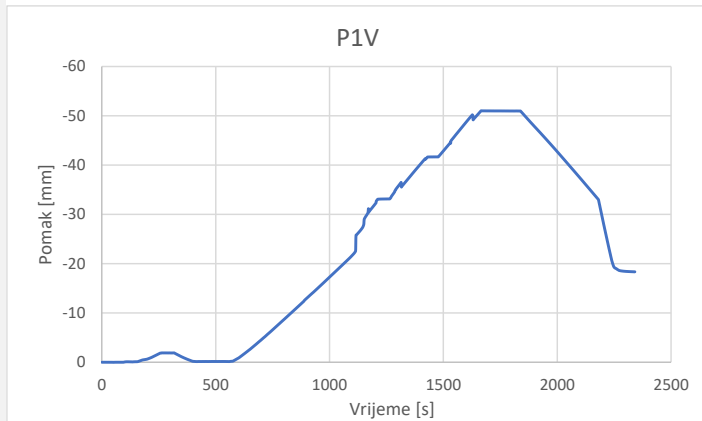


CG3



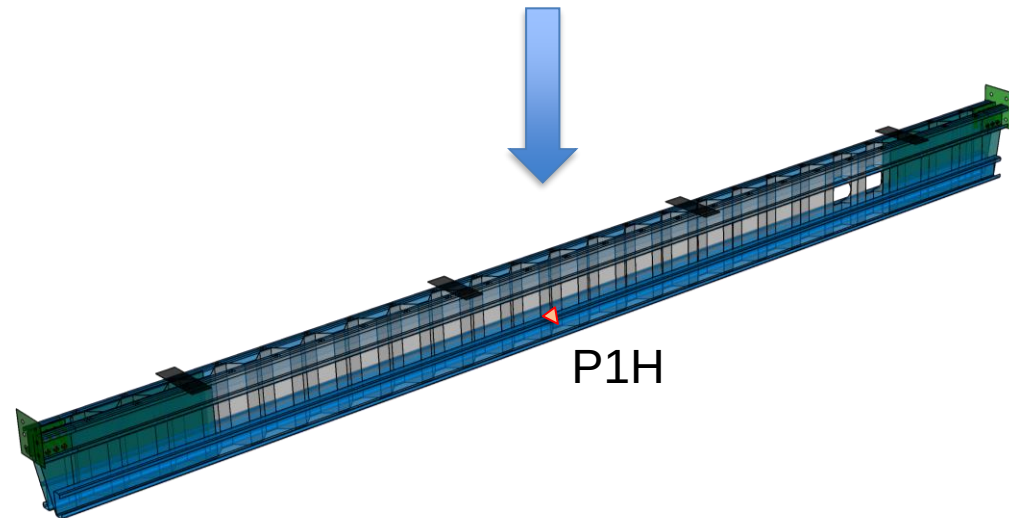
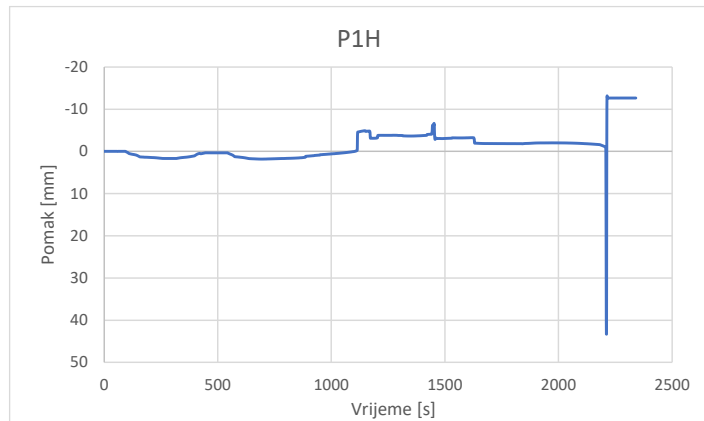
STEEL GIRDER– RESULTS

LVDT- vertically

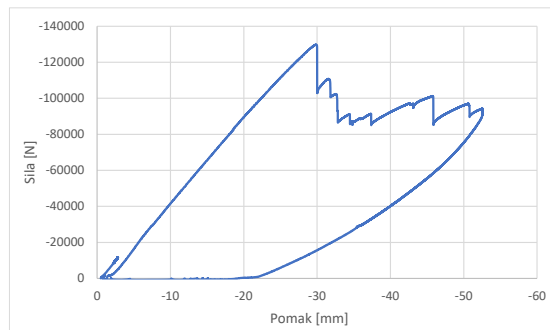


STEEL GIRDER– RESULTS

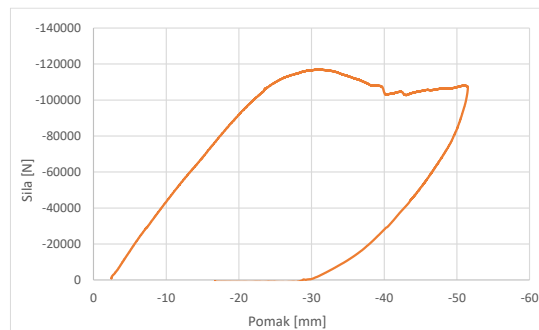
LVDT- horizontally



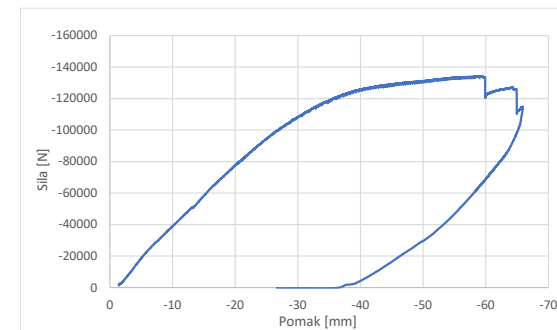
SG1



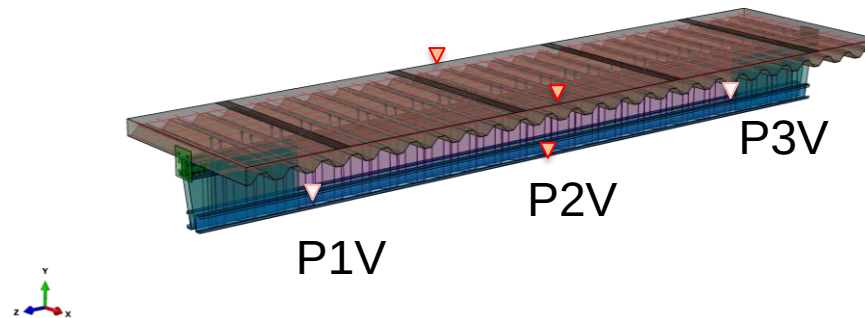
SG2



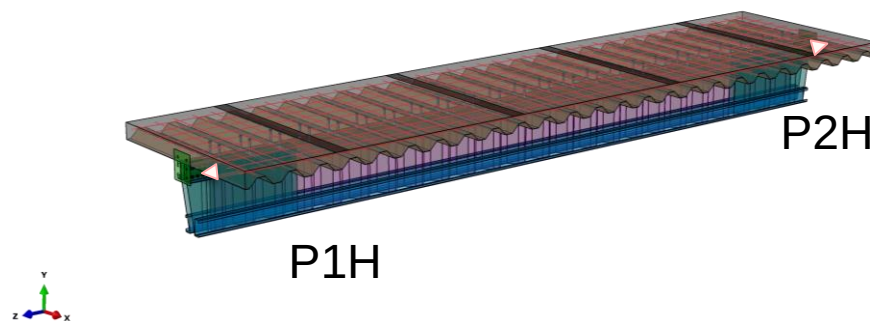
SG3



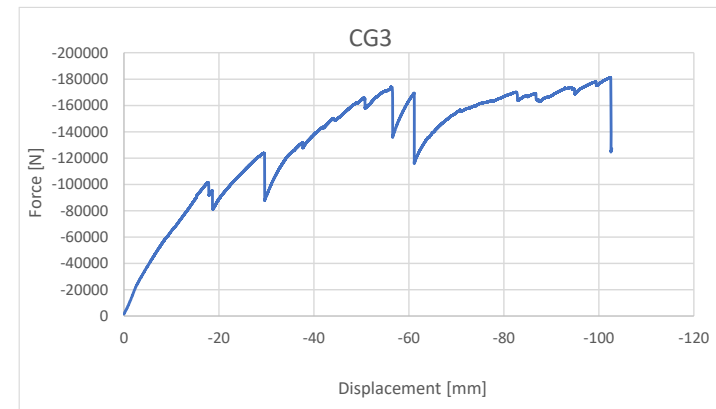
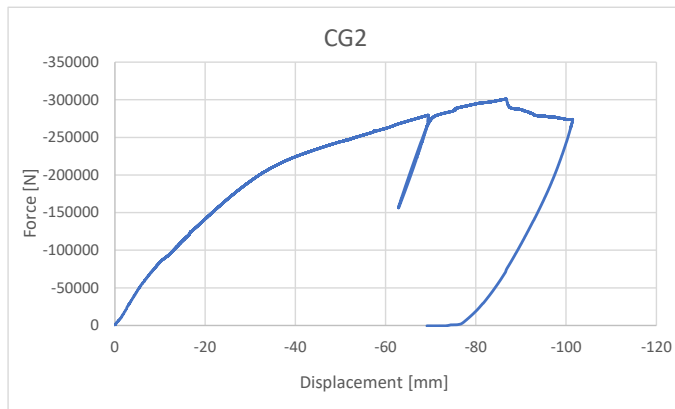
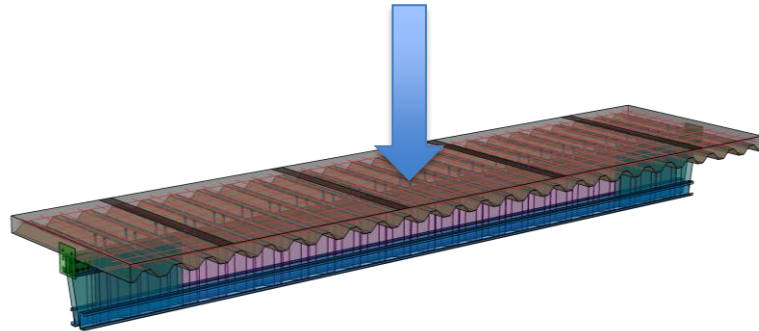
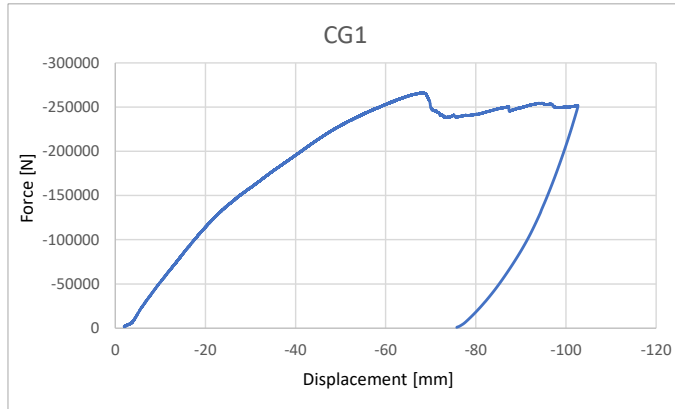
LVDT- vertically



LVDT- horizontally



COMPOSITE GIRDER – RESULTS



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